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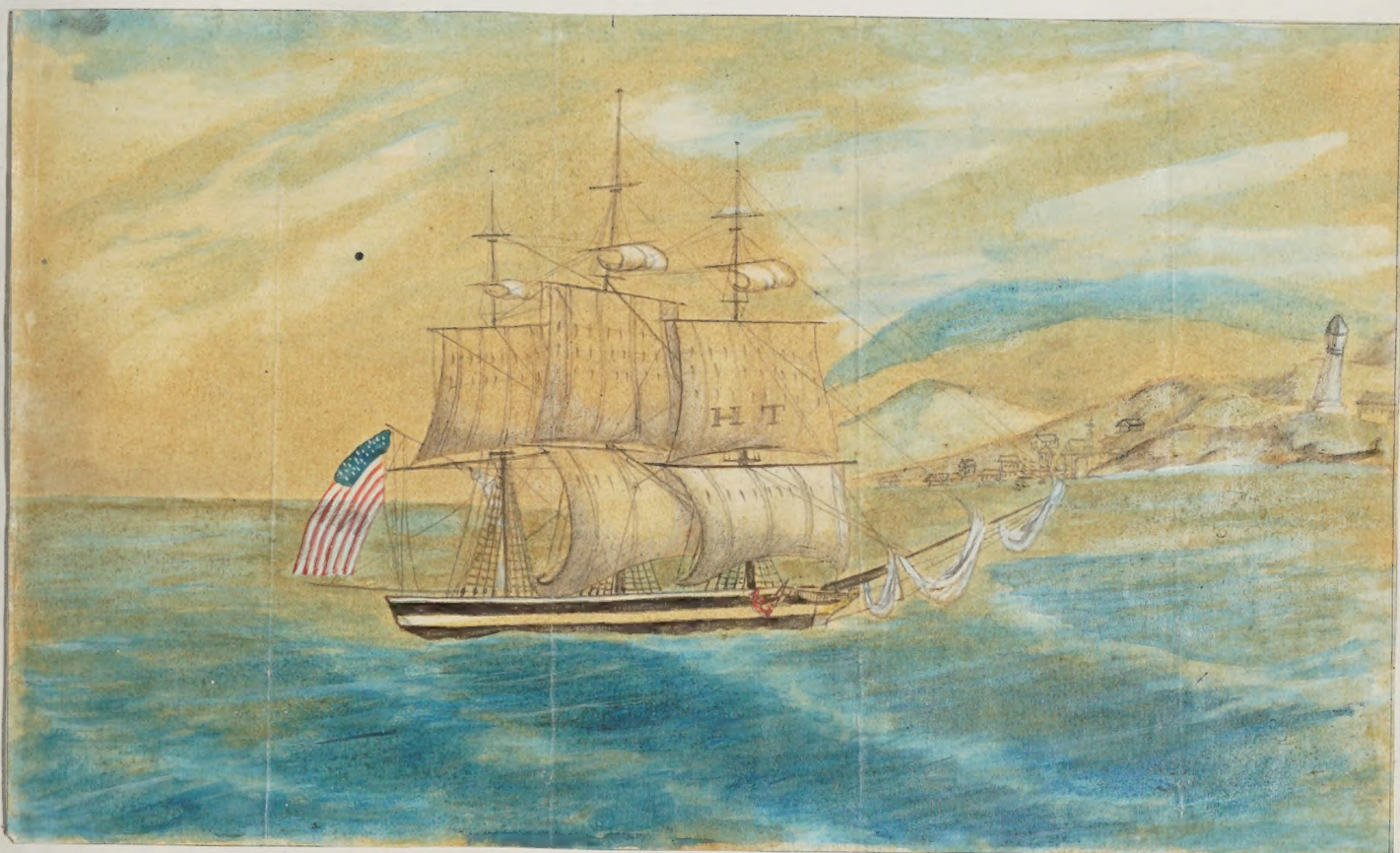
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Journal of the Bk Schooner from Whit Lantry in San Francisco

URS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.
								<i>4th Dec 4 1880</i> <i>A. M. finish Lantry and</i> <i>hull off from</i> <i>Main Street Wharf</i> <i>and anchor in</i> <i>the Green Bay</i> <i>will start clefth</i> <i>15:09 aft and 15:10 fore</i>

Journal of Whit in the from Fleetsmy and getin Amle May

URS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
								<p>5th Dec 5 1880</p> <p>A. M. first part Rainy with Wind S. E Bright the forenoon and most all Sny for sun the Lave all anchor and at star duty at 1 P. M. Manned the Winches and at 1:30 pracht to see in Jaw of the Steer Lay Platform at 3:30</p> <p>P. M. let go of the Lays in let all Scit and sloot off an Port Jack Wm S. E Light Midnight the Sun</p>	
URSE.	DISTANCE.	DIFF. OF LAT.	DEPARTURE.	LAT. BY D. R.	LAT. BY OB.	VARIATION.	DIFF. OF LON.	LON. IN.	LON. BY OB.

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.
1								A. M. Wind light and
2								variable throughout the
3								12 Hours at 12 M
4								Ships Lat by O B was
5								37-28 N
6								Long by D. R. 123-20 W
7								the day continues 12 Hours
8								and continues in the
9								day
10								
11								
12								
1								P. M.
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.
1	/		S	Variable				A. M. Light variable air
2	/							and calm throughout
3	/							the 24 Hour storm
4	/							anchors in Chain
5	/							
6	/							
7	/							
8	/							
9	/							
10	/							
11	/							
12	/							
1	/							P. M.
2	/							
3	/							
4	/							
5	/							
6	/							
7	/							
8	/							
9	/							
10	/							
11	/							
12	/							Pumps ceased attack

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					37-01			123-20	

Journal of the Bk Noiman from San Francisco to New Bedford

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	/		S	Variable				A. M. light variable air and calm	
2	/								
3	/								
4	/								
5	/								
6	/								
7	/								
8	/								
9	/								
10	/								
11	/								
12	/								
1	/							P. M.	
2	/								
3	/								
4	/								
5	/								
6	/								
7	/							little fast wind	
8	/							S. E. with light	
9	7		SSW	S. E.				Breeze.	
10	7								
11	7								
12	7							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				26-74	29-75			173-25	

Journal of Bk Noiman from San Francisco to New Bedford

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	2		S.S.W.	S.E.				Thurs 7 Dec 1880	
2	2							A. M. with wind increasing	
3	2							from S.E. at 6 in	
4	2							light sail at 8	
5	2							strong breeze in 9 5	
6	2							light an M.S. Refused	
7	2							S.S.	
8	2							Wet Hole	
9	2								
10	2								
11	2								
12	2								
1	2							P. M. calm in with	
2	2							Wind abating at 3	
3	2							set whole S.S.	
4	2							at 4 set all sail	
5	2								
6	2								
7	2								
8	/								
9	/								
10	/							Emb. with thick fog	
11	/							Pumps carefully attended	
12	/								
Course.	Distance.	-Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				35-56				173-56	172

Journal of the B.B. Norman from San Francisco to S. B.

Hours.	KNOTS.	Fathoms.	Courses.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	1		S. N. E. S. E.					A. M. Comes in with light air and thick fog	
2	1								
3	1								
4	1								
5	1								
6	1								
7	1								
8	1								
9	1								
10	1								
11	1								
12	1								
1	1		S. S. E. W					P. M. Comes in the same	
2	1								
3	1								
4	1								
5	1								
6	1								
7	1								
8	1								
9	2								
10	2								
11	2								
12	4								
								End with light air from W. with thick fog	
								Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				35-25	35-44			149-19	

Journal of

from

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	2		S. S. E.	B ^r				<p>A. M. Comes in with Wind W. with light fogs</p>	
2	2								
3	2								
4	2								
5	2								
6	2								
7	2								
8	2								
9	5								
10	5								
11	5								
12	5								
1	5			S. S. W.				<p>P. M. Comes in with thick S. S. W. Wind with light fogs</p> <p>Not Aloft</p> <p>End the same</p> <p>Pumps carefully attached</p>	
2	5								
3	6								
4	6								
5	6								
6	6								
7	6								
8	5								
9	5								
10	5								
11	5								
12	5								
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				34-02	34-56			123-35	

Journal of the Bk & Norman from San Francisco to S. B.

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	6		S. E.	28, 25, 22				<i>Sun Decr 1880</i> A. M. Came in fine with Wind N. E. M.	
2	6								
3	6								
4	6								
5	6								
6	6								
7	6								
8	6								
9	6								
10	6								
11	6								
12	6								
1	6							P. M. Came in the same	
2	6								
3	6								
4	6								
5	6								
6	6								
7	6								
8	6							End fine	
9	6								
10	6								
11	6								
12	6							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				28-20	21-29			12-28	

Journal of from

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	6		S. E.	N. E. M.				Man 13 Dec 1880	
2	6							A. M. Came in fine Wind	
3	6							N. E. same Brass was	
4	6							observed from A B	
5	6							to O's for incapacity	
6	6							Ways from the date to	
7	6							1880 per month	
8	6								
9	6							D. B. Dagg's Mate	
10	6							W. Trusck James Brown	
11	6								
12	6	1/2							
1	6	1/2						P. M. Came in the same	
2	6	1/2							
3	6	1/2							
4	6	1/2							
5	6	1/2							
6	6	1/2							
7	6	1/2							
8	6	1/2						End fine	
9	6	1/2							
10	6	1/2							
11	6	1/2							
12	6	1/2						Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				28-03	28-58			1231	

Journal of B. B. Norman from San Francisco N.B.

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	6		S.E.	N.E.S.W.				<i>True Dec 14 1880</i> A. M. Come in fire with Wind N.E.S.W.	
2	6								
3	6								
4	6								
5	6								
6	6								
7	6								
8	6								
9	6								
10	6								
11	6								
12	6								
1	6							P. M. Come in the same	
2	6								
3	6								
4	6								
5	5								
6	5								
7	5								
8	5							End fire with Wind abating	
9	5								
10	5								
11	5								
12	5							Bumpers carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				24-41	26-41			129-5	

Journal of from

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	6		F.G.C.	N.E.S.W.				A. M. Come in fire with Wind N.E.S.W.	
2	6								
3	6								
4	6								
5	6								
6	6								
7	6								
8	6								
9	6								
10	5								
11	5								
12	5								
1	5			N.				P. M. Come in with light shower of Rain and Wind backing to N.	
2	5								
3	5								
4	5								
5	4							Wet Hake	
6	4								
7	4								
8	4							End with Wind N.W.	
9	4								
10	4			N.W.					
11	4								
12	4							Prumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				24-46	24-51			122-35	

Journal of Bb Norman

from San Francisco to S. B

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	2		G. by S.	N. W.				Thurs Dec 16 / 80 A. M. Comes in pin with light N. W. air	
2	2								
3	2								
4	2								
5	2								
6	2								
7	2								
8	2								
9	2								
10	2								
11	2								
12	2								
1	2							P. M. comes in the same	
2	2								
3	2								
4	2								
5	2			N. E. W.					
6	2								
7	2								
8	2							End pin light air from N. E. W.	
9	2								
10	2								
11	2								
12	2							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				23-26	22-24			122-1	

Journal of

from

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	9		SE by S	Variable				Fri Dec 17/80 A. M. Comes in pin with Wind coming from N to W light	
2	7								
3	7								
4	9								
5	9								
6	7								
7	7								
8	7								
9	7								
10	7								
11	7								
12	7								
1	7							P. M. comes in the same	
2	7								
3	7								
4	7								
5	7								
6	7							End pin list up the S. B vessel	
7	7								
8	7								
9	7								
10	7								
11	7								
12	7							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				22-20	22-22			121-46	

Journal of B.B. Norman from San Francisco to St. B

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	9		SSE	cr				A. M. Came in fair with Wind & light	
2	9								
3	9								
4	9								
5	9								
6	9								
7	9								
8	9								
9	9								
10	9								
11	9								
12	9								
1	9							P. M. Came in the same	
2	9								
3	9							Wet Hole	
4	9								
5	9								
6	4			E					
7	4							Each fair Wind & light	
8	4								
9	4								
10	4								
11	4								
12	4							Bumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				21-10	21-09			121-34	

Journal of from

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	5		SSE	E				A. M. Came in fair	
2	5							with Wind E	
3	5								
4	5								
5	6								
6	6								
7	5			ESE					
8	6								
9	6								
10	6								
11	5								
12	6								
1	6							P. M. came in fair	
2	6							with good Breeze for	
3	6							ESE.	
4	6								
5	6								
6	6								
7	6								
8	5								
9	6							End the same	
10	6								
11	6								
12	5							Bumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				21-48	18-50			121-22	

Journal of B. B. Norman from San Francisco to S. B.

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	6		S. by E. E. S. E.					A. M. Canoe in fire	
2	6							with Wind E. S. E.	
3	6								
4	6								
5	7							Light a Ship - 1. 1. 1.	
6	7							W. S. 2.	
7	7								
8	7								
9	7								
10	7								
11	7								
12	7								
1	7							P. M. canoe in the same	
2	7								
3	7								
4	7								
5	6								
6	6								
7	6							End fire	
8	6								
9	6							Current to the S.	
10	6								
11	6								
12	6							Prumps carefully at the	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				16-30	16-22			12145	

Journal of from

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	6		S. by E. E. S. E.					A. M. Canoe in fire	
2	6							Wind E. S. E. gave	
3	6							Prize	
4	6								
5	6								
6	7								
7	7								
8	7								
9	7								
10	7								
11	7								
12	7								
1	7							P. M. Canoe in the same	
2	7								
3	7								
4	7								
5	7								
6	7								
7	7							End fire	
8	7								
9	7								
10	7								
11	7								
12	7							Prumps carefully at the	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				19-35	19-42			120-40	

Journal of BB Norman from San Francisco to N.B.

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	6		9.58.48	Eos E				A. M. Came in fine Wind E. S. E.	
2	6								
3	6								
4	6								
5	6								
6	6								
7	6								
8	6								
9	6								
10	6								
11	6								
12	6								
1	6							P. M. came in squally all Light sail in	
2	6								
3	6								
4	6								
5	6								
6	6							It is evident to W.	
7	6							End the same wind	
8	6							E	
9	6								
10	6								
11	6								
12	6								
				E.				Properly caught at the	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				11-06	11-01			120-4	121-29

Journal of _____ from _____

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	8		SSE	E				A. M. Came in Squally	
2	5							all Saut	
3	5								
4	4								
5	4								
6	4								
7	4								
8	4								
9	2								
10	2								
11	2								
12	2								
1	2							P. M. Came in Squally	
2	2							easing Saut a cordingly	
3	2							Camele Saut eturde	
4	2							to Or Leany for 20 per	
5	4							Mautt	
6	4								
7	3							End with Wind	
8	3							S. W. with heavy Rain	
9	3							and put Sails	
10	3								
11	3								
12	3							Pump corpsing attend	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				9-02				121-04	

Journal of B. A. Norman from San Francisco to N.B.

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	6		S.S.E	SE				A. M. Came in with	
2	6							Wind rising to a	
3	7							with heavy Squalls	
4	7							Carry Sail accordingly	
5	7								
6	5								
7	5								
8	5								
9	4								
10	4								
11	4								
12	4								
1	3			SE				P. M. Came in with Wind	
2	3							N.E. Squalls abating	
3	3								
4	3								
5	3								
6	3								
7	3								
8	3							End with light S.E. Wind	
9	3		S.S.E. S.E.					all sail set	
10	3								
11	3								
12	3							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				7-74	7-29			11088	

Journal of from

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1.	7		S.W.	S.S.E.				A. M. Came in fine with	
2	7							Wind S.S.E. light	
3	7								
4	7								
5	7								
6	7								
7	7								
8	7								
9	7								
10	7		S.W.						
11	7								
12	7								
1	7							P. M. Came in the same	
2	7								
3	7								
4	7								
5	7							at 10 Past to the	
6	7							E. S. E. Wind & light	
7	7		N.W.	S					
8	7								
9	7								
10	7								
11	7		E. S. E.						
12	7							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				6-40	6-45			111-58	

Journal of B. B. Norman from San Francisco to & B

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.
1	2		E.E.	9				A. M. Came in fine with Wind S Light
2	2							
3	2							Hit Hole
4	2							
5	2							
6	2							
7			Calm					
8								& Calm
9	1		S.E.	08				
10	1							
11	1							
12	1							
1	1							P. M. Came in with light air from S
2	1							
3	1							
4	1							
5	1							
6	1							
7	1							End fine with light air from E in company with a B. B. Story S
8	1							
9	1							
10	1							
11	1							
12	1							Pumps carefully attended

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				4-20	6-25			121-48	

Journal of from

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.
1	2		S.E.	E				A. M. Came in fine with Wind E light
2	2							
3	2							
4	2							
5	2							
6	2							
7	2							
8	2							
9	2							
10	2							
11	2							
12	2							
1	2							P. M. Came in the same
2	2							
3	2							
4	2							Stayed the Mast
5	2							
6	2							
7	2							
8	2							End fine
9	2							
10	2							
11	2		S.E.	S.E.				Pumps carefully attended
12	2							

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				5-24	5-25			121-48	

Journal of *Barque Cormorant* from *San Francisco* to *S. B.*

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	4		S. by E	S. E.				A. M. Came in view	
2	4							with Wind S. E.	
3	4								
4	4								
5	4								
6	4								
7	4								
8	4								
9	4								
10	4								
11	4								
12	4								
1	5							P. M. Came in the same	
2	5								
3	5								
4	5								
5	5								
6	5							Ag. Bk. in sight land	
7	5							East view	
8	5								
9	5								
10	5								
11	5								
12	5								Pumps carefully attended
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				2-55	3-25			12240	

Journal of *from*

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	5		S.W. by S	S.E.				A. M. <i>Came in sight</i>	
2	5							<i>with Wind S.E.</i>	
3	5								
4	5								
5	5								
6	5								
7	5								
8	5								
9	5								
10	5								
11	5								
12	5								
1	5							P. M. <i>Came in the</i>	
2	5							<i>same</i>	
3	5								
4	5								
5	5								
6	5							<i>Lost away the Goos</i>	
7	5							<i>with an Spanish</i>	
8	5							<i>Yap reef and set</i>	
9	5							<i>up</i>	
10	5								
11	5								
12	5							<i>Pumps carefully attended</i>	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				2-40	2-41			12235	

Journal of Bb Norman from San Francisco to S. B.

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.
1	5		S. by N. S. E.					A. M. Came in sight with Wind S. E.
2	5							
3	5							
4	5							
5	5							
6	5							Hit Hole
7	5							
8	5							
9	5							
10	5							
11	5							
12	5							
1	5		S. by N. S. E.					P. M. Came in sight
2	5							
3	5							
4	5							
5	5							
6	5							
7	5							
8	5							
9	5							End the Same
10	5							
11	5							
12	5							Prompts carefully attended

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				0-55	1-00			124-34	124-32

Journal of from

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.
1	5		E. E. S. E.					A. M. Came in sight with Wind E. S. E. good Breeze
2	5							
3	5							
4	5							
5	5							
6	5							
7	5							
8	5							
9	5							
10	5							
11	5							
12	5							
1	5		E. E. S. E.					P. M. Came in the Same
2	5							
3	5							
4	5							
5	5							May W. Eased
6	5							
7	5							
8	5							End fire
9	5							
10	5							
11	5							
12	5							Prompts carefully attended

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				1-20	1-19			125-48	

Journal of *Bk* *Norman* from *San Francisco* to *Sitka*

Hours.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.			
1	6							A. M. <i>Came in fire</i> <i>with fresh E. S. E. Wind</i>			
2	6										
3	6										
4	6										
5	6										
6	6										
7	6										
8	6										
9	6										
10	6										
11	6										
12	6										
1	6							P. M. <i>Came in the same</i> <i>End fire</i> <i>Pumps cast up, attached</i>			
2	6										
3	6										
4	6										
5	6										
6	6										
7	6										
8	6										
9	6										
10	6										
11	6										
12	6										
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.		
				4-00	4-09			126-20	126-25		

Journal of *from*

Hours.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.			
1	8		<i>Light</i>	<i>E. S. E.</i>				A. M. <i>Came in fire</i> <i>with Wind E. S. E.</i> <i>Not Mole</i>			
2	8										
3	8										
4	8										
5	8										
6	8										
7	8										
8	8										
9	8										
10	8										
11	8										
12	8										
1	8							P. M. <i>Came in the same</i> <i>End fire Wind E. S. E.</i> <i>Pumps cast up attached</i>			
2	8										
3	8										
4	8										
5	8										
6	8										
7	8										
8	8										
9	8										
10	8										
11	8										
12	8										
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.		
				7-05	7-06			126-55			

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	8		Light	E. S. E.				A. M. Came in here	
2	8							with fresh E. S. E.	
3	8							Wind	
4	8								
5	8								
6	8								
7	8								
8	8								
9	8								
10	8								
11	8								
12	8								
1	8							P. M. Came in the	
2	8							same	
3	8								
4	8								
5	8								
6	8								
7	8								
8	8							End fire	
9	8								
10	8								
11	8								
12	8							Bumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				10-09	10-10			126-48	

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	8		Light	E. S. E.				A. M. Came in here	
2	8							with Wind E. S. E.	
3	8								
4	8								
5	8								
6	8								
7	8								
8	8								
9	8								
10	8								
11	8								
12	8								
1	8							P. M. Came in the same	
2	8								
3	8								
4	8								
5	8								
6	8								
7	8							End fire	
8	8								
9	8								
10	8								
11	8								
12	8							Bumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				17-10	17-09			126-48	

Journal of Bb e Vorman from San Francisco to S. D.

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	8		SE	SE				A. M. Net for 5/81	
2	8							Came in fire	
3	8							with Wind SE	
4	8								
5	8								
6	8								
7	8								
8	8								
9	8								
10	8								
11	8								
12	8								
1	8							P. M. Came in fire	
2	8								
3	8								
4	8								
5	8								
6	8								
7	8							End fire Wind SE	
8	8								
9	8								
10	8								
11	8								
12	8							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				15-25	15-24			112-78	

Journal of from

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	5		SE	SE				A. M. <i>Thurs Jan 6/81</i> Came in fire with Wind SE.	
2	5								
3	5								
4	5							Net Hole	
5	5								
6	5								
7	5								
8	5								
9	5								
10	5								
11	5								
12	5								
1	5							P. M. <i>Came in the same</i>	
2	5								
3	5								
4	5								
5	5								
6	5								
7	5								
8	5							End fire	
9	4								
10	4								
11	4								
12	4							<i>Pumps carefully attended</i>	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				17-25	17-20			117-98	

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.
1	5		S. by E	E. by S, N. by E				Fri Jan 7/51 A. M. Came in with light E. by S, N. by E Wind and Cloudy with <

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.
1	5		S.E. variable					Sat Jan 8/81 A. M. Came in with light variable air and Calm with Shower of Rain

Journal of B. B. Norman

from San Francisco to S.B.

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	2		S.W. Variable					Sun Jan 9/84 A. M. Came in with light air, and Calm light Rain Hit Mole	
2	2								
3	2								
4	2								
5	2								
6	2								
7	2								
8	2								
9	2								
10	2								
11	2								
12	2								
1	2		S.W.					P. M. Came in with light air from S.W. End the same Pumpers carefully attended	
2	2								
3	2								
4	2								
5	2								
6	2								
7	2								
8	2								
9	2								
10	2								
11	2								
12	2								
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				20-10	20-17			27-20	

Journal of

from

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	2		S.W. Variable					Mon Jan 13/84 A. M. came in with light variable air and Calm with squalls of Rain	
2	2								
3	2								
4	2								
5	2								
6	2								
7	2								
8	2								
9	2								
10	2								
11	2								
12	2								
1	2							P. M. came in the same	
2	2								
3	2								
4	2								
5	2								
6	2								
7	2								
8	2								
9	2								
10	2								
11	2								
12	2								
								End the same	
								Pumpers carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					20-52			127-44	

from San Francisco to N.B.

from

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				24-24	24-26			128-24	

Journal of B. B. Norman from San Francisco to S. B.

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	4		S.S.E.	S.W.				Thurs Jan 31st A. M. Cany in Clowdy with Wind S.W.	
2	4								
3	4								
4	4							Wif Hole	
5	3								
6	3								
7	1		E.S.E.	S.S.E.					
8	1							& Wind S.W. with Rain	
9	4								
10	4								
11	4								
12	4								
1	4		S.W.					P. M. Cany in with Wind S.S.E. Yacht to the S.W.	
2	4								
3	4								
4	4								
5	4								
6	4								
7	4		S.S.W.	S.E.					
8	4								
9	4							End fire Wind S.E.	
10	4								
11	4								
12	4							Prompts carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				25-20	25-22			128-77	

Journal of from

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	3		S. S. W.	S. E.	1			A. M. Canoe in fire	
2	3							with Wind S. E.	
3	4								
4	4							at 6 Wind E. S. E.	
5	4								
6	4								
7	4		S	E. S. E.	1				
8	4								
9	4								
10	4								
11	4								
12	4								
1	4							P. M. Canoe in fire	
2	4							Wind the same	
3	4								
4	3								
5	3								
6	3								
7	3								
8	3							End fire	
9	3								
10	3								
11	3							Prompts carefully attended	
12	3								
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				26-42	26-42			129-19	

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.			
1	4		S. by E. E. by S.					Lat 15 Jan 51			
2	4							A. M. Canoe in pin			
3	4							with Wind E. by S.			
4	4										
5	4										
6	4										
7	5										
8	5										
9	5										
10	5										
11	5										
12	4										
1	4							P. M. Canoe in the same			
2	4										
3	4										
4	4										
5	4										
6	4										
7	4										
8	4										
9	4							End pin			
10	4										
11	4										
12	4							Pump carefully attended			
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.		
				25-25	25-21			129-09			

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.			
1	4		S. by E. E. by S.					Sun Jan 16/51			
2	4							A. M. Canoe in pin			
3	4							with Wind E. by S.			
4	4							Wet Hole			
5	5										
6	5										
7	5										
8	5										
9	5										
10	5										
11	5										
12	5										
1	5							P. M. Canoe in the			
2	5							Same			
3	5										
4	5										
5	5										
6	5										
7	5										
8	5										
9	5							End pin			
10	5										
11	5										
12	5							Pump carefully attended			
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.		
				20-20	30-29			129-45			

Journal of Bk Norman

from San Francisco to S.B.

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.		
1	9		S.E. E.S.E.					A.M. Calm in fin with light wind from E.S.E.		
2	9									
3	9									
4	9									
5	9									
6	9									
7	9									
8	9									
9	9									
10	9									
11	2							P.M. Calm in the same		
12	2									
1	2									
2	2									
3	2									
4	2									
5	2									
6	2									
7	2									
8	2									
9	2									
10	2									
11	2									
12	2									
								End Cloud with light fog		
								Drumpey attached		
Course.		Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					71-19				129-5-	

Journal of

from

Hours.	KNOTS.	Fathoms.	Courses.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	2		S. S. E. Variable					A. M. Came in Elowely with light variable air and Calm	
2	2								
3	2								
4	2								
5	2								
6	2								
7	/								
8	/								
9	/								
10	/								
11	/								
12	/								
1	/							P. M. Came in the same	
2	/								
3	/								
4	/								
5	/								
6	/								
7	/								
8	/								
9	/								
10	/								
11	/								
12	/								
								Each with fine Rain and light E. S. W. Wind	
								Pump carpenter attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				31-48				129-48	

Journal of B. B. Norman from San Francisco N.B.

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	2		S.S.E.	E.S.E.				A. M. Calms in Cloudy	
2	2							with light variable	
3	2							Air and Calms	
4	2								
5	2								
6	2								
7	2								
8	2								
9	2								
10	2								
11	2								
12	2								
1	2							P. M. Calms in Cloudy	
2	2							with light E.S.E.	
3	2							Wind	
4	2								
5	2							at 8 Wind out to 8	
6	2							with Squall of Wind	
7	2							and Rain in all	
8	2							the Sail	
9	2		E.S.E.	S.					
10	2							End Squally	
11	2							Pumps working attended	
12	2							Still Pumping oil	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				32-50				128-38	

Journal of from

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	5-		E. S. S.	S.				Thurs Jan 20/81 A. M. Calms in Squally at 4 in S. S. Sail and S. fift	
2	5-								
3	5-								
4	5-							Net Mole	
5	5-								
6	5-								
7	5-								
8	5-								
9	4							Ship making more with the most pumping oil	
10	4								
11	4								
12	4								
1	4							P. M. Calms in the Sea	
2	4								
3	4								
4	4								
5	5-								
6	5-							End more made at Set S. S. Sail.	
7	5-								
8	5-								
9	5-								
10	5-								
11	5-							Pumps working attended	
12	5-								
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				27-25	27-15			128-36	128-3

Journal of Bb Norman from San Francisco to S.B.

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	5		E. S. E.	S				A. M. Came in with	
2	5							fresh S. Wind and	
3	5							Squall carrying sail	
4	5							decreasing	
5	5								
6	5								
7	5								
8	5								
9	5								
10	5								
11	5								
12	4								
1	4							P. M. Came in the same	
2	4								
3	4								
4	3								
5	3		E. S. E.						
6	3								
7	4								
8	4							End made at Wind	
9	4							E. S. E. Jacked Ship	
10	4							Pumps carefully attended	
11	4							Ship, working Water freely	
12	4								
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				33-20	33-28			125-48	

Journal of from

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	4		S. S. W.	E. S. E.				A. M. Put sail 22/84 Came in with Wind E. S. E. made at	
2	4								
3	4								
4	4								
5	4								
6	4								
7	4								
8	4								
9	4								
10	4								
11	3								
12	3								
1	3							P. M. Came in the same	
2	3								
3	3								
4	3								
5	3								
6	3								
7	3								
8	3								
9	3							End fire	
10	3								
11	3								
12	3							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				34-50	34-52			125-48	

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS. <i>San Francisco 23/81</i>			
1	4		E. by E	E. by S				A. M. <i>Came in sight with Wind E. by S.</i>			
2	4										
3	4										
4	4										
5	4										
6	4										
7	3							<i>Wet Mole</i>			
8	3										
9	3										
10	3										
11	3										
12	3										
1	3							P. M. <i>Came in the same</i>			
2	3										
3	3										
4	3										
5	3										
6	3										
7	3							<i>End fire with light Wind</i>			
8	3										
9	3										
10	3										
11	3										
12	3										
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.		
				36-14	36-11			125-79			

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS. <i>Manila 24/81</i>			
1	4		S. by E	E. by S.				A. M. <i>Came in sight with light E. by S. Wind</i>			
2	4										
3	4										
4	4										
5	4										
6	4										
7	4										
8	4										
9	4										
10	4										
11	4										
12	4										
1	4							P. M. <i>Came in the same</i>			
2	4										
3	4										
4	4										
5	4										
6	4										
7	4							<i>End fire</i>			
8	4										
9	4										
10	4										
11	4										
12	4										
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.		
				37-40	37-35			125-45			

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	4		L. S. E.	E				Thurs Jan 25/81 A. M. Canoe in pin with light E wind and a lake in the Port New and would Canoe over it	
2	4								
3	4								
4	4								
5	4								
6	4								
7	7								
8	7								
9	7								
10	7								
11	7								
12	7								
1	7							P. M. Canoe in pin End of same wind S. E. Pumps completely attached	
2	7								
3	7								
4	7								
5	7								
6	7								
7	7								
8	7								
9	7								
10	7								
11	7								
12	7								
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				39-07	39-02			75-28	

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	7		S.E.	Variable				<i>Wed Jan 26/81</i> A. M. Canoe in pin with light variable wind	
2	7								
3	7								
4	7								
5	7								
6	7								
7	2								
8	2								
9	2								
10	2								
11	2								
12	2								
1	2							P. M. Canoe in the Tarn	
2	2							Set the Main Sloop for row &c with	
3	2								
4	2								
5	2							A sail in sight to the Eastward then to the S. E.	
6	2								
7	2								
8	2								
9	2								
10	2								
11	2							Pumps completely attached still pump out	
12	2								
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				39-48	39-49			75-02	

Journal of Bb Norman

from San Francisco to VP

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	2		S	E.S.E.				Thurs Jan 27/81	
2	2							A. M. Canoe in fire	
3	3							with light S.E. breeze	
4	2								
5	3								
6	2								
7	2								
8	2								
9	2								
10	2								
11	3								
12	3								
1	2							P. M. Canoe in the Sam	
2	2							at 2 Tachet to the	
3	2		E.S.E.	S				E.S.E.	
4	4								
5	4								
6	4								
7	4								
8	4								
9	4		E	S.S.E.				End fire Wind S.S.E.	
10	4								
11	3								
12	5							Pumps carefully attended.	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				40-20	40-26			124-28	

Journal of

from

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	4		E 1/2 S	S 1/2 E				Fri Jan 28/81	
2	4							A. M. Cany fire with	
3	4							Wind S 1/2 E.	
4	5								
5	5								
6	5								
7	5								
8	5								
9	5								
10	5								
11	5								
12	5								
1	6							P. M. Cany in Squally	
2	6								
3	6								
4	6								
5	5								
6	5								
7	5							at 8 Tachet Ship to	
8	5							the S. S. W.	
9	5		S 1/2 S	S. E.					
10	5							End fire Tachet to the	
11	5							E. S. E.	
12	5							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				40-45	40-40			122-0	

Journal of Bb Norman from San Francisco to S.B

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	5		S.E.E.	S.E.				Sat Jan 29/81 A. M. Carry in full with Wind S.E.	
2	5								
3	5								
4	5								
5	5								
6	5								
7	4							Slightly a Bk on the Port Tack	
8	4								
9	4								
10	4							at 9 a Ship exact and start on Port Tack	
11	4								
12	4							P. M. Carry in H same	
1	4		S.E.E.	E.S.E.					
2	4								
3	4								
4	4								
5	4								
6	4							at 2 Tack! Ship Wind E.S.E.	
7	4								
8	4								
9	4							East Squally	
10	3								
11	3								
12	3							Pump carpet attached	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				40-50	40-50			121-48-	

Journal of from

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	4		S.W.	E.S.E.				Sun Jan 30/81 A. M. Carry in squally carry sail accordingly	
2	4								
3	4								
4	4								
5	4								
6	4							Hit Hole	
7	4								
8	4								
9	4								
10	4								
11	4								
12	4								
1	4							P. M. Carry in H. same	
2	4								
3	4								
4	4								
5	4		S.E.E.	E.S.E.					
6	4								
7	4								
8	5								
9	5							East Cloudy with first Breezes	
10	5		S.E.E.	S.E.					
11	5								
12	5							Pump ca. etc. attached	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				40-24	40-24			121-54	

Journal of Bb Norman from San Francisco N B

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	5		S. E. by E. & E					A. M. Carry in Cloudy with fresh E Wind	
2	5								
3	5								
4	5							at 4 in all light sail	
5	4							at 5 in J. I. Sail on	
6	3		E		2			J. S. S.	
7	2				4			at 7 put 2 reefs in.	
8	1							J. I. Sail and fresh M. S.	
9	1							at 9 clear reefed J. I. Sail	
10	1			W. S. W.	5			and fresh J. I. and S. S.	
11	1							at 10 fresh J. I. and have	
12	1							two on Port Tack	
1	1							P. M. Carry in with	
2	1		E E					Stary gail from 4 to	
3	4							with heavy squall	
4	4							at 2 squalls abating	
5	5							set J. I. and aft the	
6	5		E S E	N. S. W.				Ship off S. E.	
7	5								
8	5							at 6 turned and set	
9	5							out of M. S. aft the	
10	5							Ship E. S. E.	
11	5							Ends squally	
12	5							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				47-15				120-15	

Journal of from

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	8		E. S. E.	N. S. W.				Tues Feb 11/81 A. M. Carry in Squally with Wind N. S. W.	
2	8								
3	8								
4	8							at 4 Ship in set Star	
5	8		E. S. E.					E. S. E.	
6	8								
7	8							at 6 Wind abate	
8	8							Set hal Jaf sail	
9	8								
10	8							at 8 Set M. S. I. Sail	
11	8								
12	8								
1	7							P. M. Carry in fair	
2	7							all sail set	
3	7								
4	7								
5	7								
6	7			W. S. W.					
7	7								
8	7							Ends the same	
9	7								
10	7								
11	7								
12	7							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				47-10	48-32			116-35	

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	5		E 9 is					A. M. Canu in fine	
2	5							Wind is	
3	5								
4	5								
5	5								
6	5								
7	5								
8	5								
9	5								
10	5								
11	5								
12	5								
1	7		Nob 11					P. M. Canu in the same	
2	7								
3	7								
4	7							Net Hole	
5	7								
6	7								
7	7							End fine Wind S E	
8	7								
9	7								
10	7								
11	7								
12	7							Pumpy carrying attend	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				48-20	48-22			112-58	

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	7		E	S. W.				Thurs Feb 3/81	
2	7							A. M. Canv in fine	
3	7							with Wind S. W.	
4	7								
5	5		E 9/8						
6	5								
7	5								
8	5								
9	5								
10	5								
11	5								
12	5								
1	5		E					P. M. Canv in the same	
2	5								
3	5								
4	5								
5	5								
6	5								
7	5								
8	5			W				End fine Wind N	
9	5								
10	5							Pumps carried attendd	
11	5							at Starboard pump	
12	5							Spuy Oil	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				48-08	48-14			108-74	

Journal of Bb Norman from San Francisco to S.B.

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	5		E 4/8 S.	N				A. M. Cany in pin with Wind N	
2	5								
3	5								
4	5								
5	5								
6	5								
7	5								
8	5								
9	5								
10	5								
11	5								
12	5								
1	5							P. M. Cany in the sun	
2	5								
3	5								
4	5								
5	5								
6	5								
7	5								
8	5							End pin	
9	5								
10	5								
11	5								
12	5							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				49-01	49-04			104-50	

Journal of from

Hours.	Knots.	Fathoms.	Courses.	Winds.	LeeWay.	Barometer.	Temp.	REMARKS.	
1	5		E 4/8 S.	N				A. M. Cany in pin	
2	5							Wind N	
3	5								
4	5								
5	5								
6	5								
7	5								
8	5								
9	5								
10	5								
11	5								
12	5								
1	5							P. M. Cany in the sun	
2	5								
3	5								
4	5							hook and the sea. Had	
5	5							gut up. Water and Bread	
6	5							and showed the top of the	
7	5							blew	
8	5								
9	5							End pin	
10	5								
11	5							Pumps carefully attended	
12	5								
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				48-45	48-48			104-44	

Journal of B. B. Norman from San Francisco to S. B.

Hours.	Knots.	Fathoms.	Courses.	Winds.	LeeWay.	Barometer.	Temp.	REMARKS.			
1	5		E. by N. 1/2 N					Sun Feb 6/81			
2	5							A. M. Carry in fire			
3	5							Net Hole			
4	5										
5	6										
6	6										
7	6										
8	6										
9	6										
10	6										
11	7										
12	8										
1	8							P. M. Carry in the same			
2	8										
3	8										
4	7										
5	7										
6	7										
7	7										
8	7										
9	7							End fire			
10	7										
11	7										
12	7							Pumps carefully attended			
Course.		Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	
					50-74	50-74			97-49		

Journal of from

Hours.	Knots.	Fathoms.	Courses.	Winds.	LeeWay.	Barometer.	Temp.	REMARKS.			
1	6		E. by S. 1/2 S					Mon Feb 7/81			
2	6							A. M. Carry in fire with			
3	6							Wind N			
4	6										
5	6										
6	6										
7	7										
8	7										
9	7										
10	7										
11	7										
12	7										
1	7							P. M. Carry in with fire			
2	7							Rain Wind set to			
3	7							S. W			
4	7										
5	6										
6	6										
7	6										
8	6										
9	6							End with squall			
10	6										
11	6										
12	6							Pumps carefully attended			
Course.		Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	
					51-28	51-28			93-44		

Journal of B. S. S. S. S.

from San Francisco to N. B.

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	7		E. N. E.	S. S. W.				Very fog 8/51	
2	7							A. M. Lane in Squally	
3	7							at 4 in S. B. Sail	
4	7							at 7 in M. S. and	
5	6							put 2 Reef in top sails	
6	6								
7	6								
8	6								
9	6								
10	6								
11	6								
12	6								
1	6							P. M. Lane in Squally	
2	5								
3	5								
4	5								
5	5								
6	5								
7	5								
8	5							End mackay set	
9	5							79 Sails	
10	5								
11	5								
12	5							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				52-54	52-11			89-25	

Journal of

from

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	5-		E. N. E.	S. S. W.				Net Feb 2/84 A. M. Carry in with fresh Breeze from S.	
2	5-								
3	5-								
4	5-								
5	5-								
6	5-								
7	5-			S. W.					
8	6							at 6 Wind at 6 P. M.	
9	6								
10	6								
11	6								
12	6								
1	5-							P. M. Carry in with Breeze	
2	5-								
3	5-								
4	5-							Net Haul	
5	5-								
6	5-								
7	5-								
8	5-								
9	5-							End for all Sail set	
10	5-								
11	5-								
12	5-							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				52-50	52-56			85-59	

Journal of *Bb Norman* from *San Francisco to S. F.*

Hours.	Knots.	Fathoms.	Courses.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	4	8		W				A. M. Cairns in fire	
2	4								
3	4								
4	4								
5	4								
6	4	8 9							
7	7								
8	9								
9	7								
10	7								
11	9								
12	9								
1	1			Varabl				P. M. Cairns in with	
2	1							light varabl Cair	
3	1								
4	1								
5	1								
6	2			N.E.S.W.					
7	2								
8	4								
9	5							End fire with Wind	
10	5							N.E.S.W.	
11	5							Pumps carefully attended	
12	5								
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				57-45	57-45			79-50	

Journal of from

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	5		Eg. N. W. S. W.					A. M. Cloud in sun	
2	5								
3	5								
4	5								
5	5								
6	5								
7	6								
8	6								
9	6								
10	6								
11	6								
12	6								
1	6							P. M. Cloud in Cloudy	
2	6								
3	6								
4	6								
5	6								
6	6								
7	6								
8	6							End with thick fog	
9	6								
10	6								
11	6								
12	6							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				55-16				80-75	

Journal of B. B. Norman

from San Francisco 5/28/81

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	51		EEG	SE				A. M. Lat Feb 12/61 Came in with thick fog Wind S.W.	
2	51								
3	51								
4	51								
5	51								
6	51								
7	51								
8	51								
9	51		E						
10	51								
11	51								
12	51								
1	4			SE				P. M. Came in thick	
2	4								
3	4								
4	4								
5	4								
6	4							Wet Holes	
7	4								
8	4							End fog with Wind S.W.E	
9	4		End S.W.E						
10	2								
11	2								
12	2							Pump casing attached	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					56-58			78-05	

Journal of

from

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	7		EEG	SE				A. M. Came in thick with Wind SE	
2	7								
3	7								
4	7								
5	7		EEG	SE					
6	7								
7	2							at 8 Wind E.S.E.	
8	2							ached Ship	
9	1		SE						
10	1								
11	1								
12	1								
1	1							P. M. Came in thick	
2	1								
3	1							at 10 Spoke the Whaler Rk Atlantic	
4	1							103 Lat out from New Bedford head	
5	1		EEG N.W.						
6	7								
7	7								
8	1							End fog with Wind N.W.	
9	1								
10	2								
11	1								
12	2							Pump casing attached	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				56-27	56-51			75-10	

Journal of Bk Norman from San Francisco to S B

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	6		S. E. by E.	W. S. by W.				A. M. Fair in with	
2	6							Wind W. S. by W.	
3	6							and with clearing	
4	6								
5	6								
6	6								
7	6								
8	6								
9	7		S. E. by E.						
10	7								
11	7								
12	7								
1	7							P. M. Carry in with	
2	7							fresh W. S. by W. Wind	
3	7								
4	7								
5	7								
6	7								
7	7								
8	7								
9	8		S. E. by E.					End squally carry	
10	8							Sail accordingly	
11	8								
12	8							Pumpy carpenter attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				56-24	56-25			70-10	

Journal of from

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	8		S. E. by E.	W				A. M. Fair Carry in.	
2	8							with fresh Wind and	
3	8							Squall from W	
4	8								
5	8		S. E. by E.						
6	8							at 4 the South Rank	
7	8							of the Diego's bar	
8	8							P & M. S. L. is	
9	8								
10	8								
11	7								
12	7								
1	7							P. M. Carry in over	
2	7							moderate Wind holds	
3	7			S. S. by W.				to S. S. by W.	
4	7								
5	6								
6	6								
7	6		S. E. by E.					in company with a	
8	6							Barque going to the	
9	5							Eastward	
10	5								
11	5								
12	5							Pump crew attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				56-10	56-07			64-48	

Journal of Bk Norman from San Francisco to & B

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.		
1	6		SE 1/2 E	S W				A. M. Carry in with		
2	6							Wind eases		
3	6							in all light Sail		
4	6							at 8 in 1/2 G Sail		
5	6							at 10 fresh M G full		
6	6							on Clay Reef		
7	6							1/2 G Sail		
8	6									
9	5		SE 1/2 E							
10	5									
11	5									
12	5									
1	1		Head from SE					P. M. Carry in with		
2	1		to E 1/2 E					big Squall at		
3	1							Wind east of S		
4	1							at 11 fresh 1/2 G		
5	1							at 4 fresh 1/2 G		
6	1							End with Wind abate		
7	1							Set 1/2 G Sail and 1/2 G		
8	1							Maon Tume on Reef		
9	3		SE 1/2 E					out of 1/2 G		
10	2							Wet Hale		
11	2							Pump, could attach		
12	2									
Course.		Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					5-5-49	5-5-47			61-45	

Journal of from

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	2		SE 1/2 E	S W				Thurs Feb 17/54 A. M. Carry in Squally	
2	2							with Wind e S. W	
3	2							Ship much easy Sail	
4	2							at 1 in 1/2 G. and 1/2 G. and	
5	2							boat the Ship to anchor	
6	2							Tack at 10 Wind halles	
7	2							to S. W. North looking	
8	1		Head from SE					for set 1/2 G and Clay	
9	1		to N. E. S. W. along the two					Reef 1/2 G and run SE for	
10	1		have to with 1 Pump drift					around 15 miles E of Coast	
11	2		SE 1/2 E S W						
12	2								
1	2							P. M. Ship running by with	
2	2							fresh Squall from S. W.	
3	2							at 3 stretch by cross	
4	1		Head from N. E. S. W.					Sea which hoisted fully	
5	1		S. W. with 1 Pump drift					the Decks stowing in the	
6	2							Dors opt and 1/2 G. taking	
7	2							in large quantities of water	
8	2							in the Cabin Colled off Monnet and	
9	2							fresh the 1/2 G. and 1/2 G. but the	
10	1							Ship to the Wind on Port Tack the Governor	
11	1							at N. 1/2 S. lying with up to N. Wind but	
12	1							of 1/2 G. in Cross Sea at 8 Pump large goods	
of 1/2 G. in Cross Sea at 8 Pump large goods									
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				34-43				34-49	

Hours.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	1							<i>Fri Feb 14/81</i> A.M. Came in with heavy Squall from S.W. with heavy cross sea Ship Leaky. Heavily Pumped but say 4. Many Pumping quantities of Oil	
2	1							at 6 Wind an' direction set S.W. and Ely heeled S of and run S.S.E.	
3	1								
4	2								
5	2								
6	2								
7	5								
8	5								
9	5								
10	5								
11	5								
12	5								
1	5							about 30 Mils Ely Current	
2	5							P.M. Came in with Wind halting to N.W. with with fine burst keep out of Top-sail and chury St. Muhl Water M.G. fath and S.W. Tails	
3	3							at 8 Wind S.W. and Bay up	
4	5							End Wind S.W. N. fresh	
5	5							Pump caput at last	
6	5								
7	5								
8	5								
9	5								
10	5								
11	5								
12	5								
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				57-76	58-79			56-50	

Hours.	Knots.	Fathoms.	Courses.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	4		S E	S S W				Sat Feb 18/81 A. M. Came in with fresh S S W Wind	
2	4								
3	4								
4	4								
5	4								
6	4								
7	4								
8	4								
9	4								
10	4								
11	4								
12	4			N					
1	4							P. M. Came in with fresh N Wind with Rain	
2	4								
3	4								
4	4								
5	4		S S E						
6	4								
7	4								
8	5								
9	1								
10	1								
11	4								
12	7								
								End fine all sail set	
								Sat	
								Pump carefully at this set	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				58-45	58-44			58-47	

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	2		Ch. S. E.	N.				A. M. Calm in place	
2	2							with N. Wind	
3	2								
4	2							at Mole	
5	2								
6	1								
7			Calme					at S Calme	
8									
9								found one Calme with	
10								any Star & Star	
11								and empty Gage 14c	
12									
1	1		S. E. E. E. at					P. M. Calm in with light	
2	2							S. air	
3	2								
4	2								
5	4		S. E. E. S. at S. N.						
6	4								
7	5								
8	5								
9	5							End with thick N. E. W.	
10	5							Wind S. E. S. W.	
11	5								
12	4							Pumps empty, at the	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				52-11				53-20	

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	5		SESE	SESE				Mon Feb 21/84 A. M. Calm in with thick Weth Wind S. E. S. W.	
2	5								
3	5								
4	5								
5	5		SE						
6	5								
7	5							at 8 Rainy	
8	5								
9	5								
10	5		SESE	W.					
11	5								
12	5								
1	6							P. M. Calm in Cloud	
2	6							Wind W	
3	6								
4	6								
5	6								
6	6								
7	6								
8	6								
9	6			W. S. W.				End fire but N. S. W.	
10	7								
11	7								
12	7							Pumps empty attached	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				50-22	50-27			50-33	

Journal of Bb Norman from San Francisco to C.V.B.

Hours.	KNOTS.	Fathoms.	Courses.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	6		N.N.E	N.W.				A. M. Came in fire with Wind N.W.	
2	6								
3	6								
4	6								
5	6								
6	6								
7	6								
8	6								
9	6								
10	6								
11	6								
12	6								
1	5							P. M. Came in the sun	
2	5								
3	5								
4	5			S.W.					
5	5								
6	5								
7	5								
8	5								
9	5							End fire Wind S.W.	
10	5								
11	5								
12	5							Pump carefully attached	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				47-58	48-54			48-0	

Journal of from

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	5			N.E. by E. S.W.				A. M. Came in fire with Wind S.W.	
2	5								
3	5								
4	5								
5	5								
6	5								
7	5								
8	5								
9	5								
10	5								
11	4								
12	4								
1	4							P. M. Came in the sun	
2	4								
3	4								
4	4								
5	4							Wet Moke	
6	4							End fire Wind W	
7	4								
8	4								
9	4								
10	4								
11	4							Pump carefully attached	
12	4								
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
	.			48-57	48-33			48-35	

Journal of Bb Norman

from San Francisco to N B

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS	
1	6		N. E. by E. S. S. W.					Thurs Feb 24/81 A. M. Came in fine with Wind N. N. W.	
2	6								
3	6								
4	6								
5	6								
6	6								
7	6								
8	6								
9	6								
10	6								
11	6								
12	6								
1	6							P. M. Came in the same	
2	6								
3	6								
4	6								
5	6								
6	6							Off Ship in sight to the S. W. Stay N E	
7	6							End fire	
8	6								
9	6								
10	6								
11	6								
12	6							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				44-54	44-47			44-45	

Journal of

from

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	5							Fri Feb 25/81 A. M. Came in fine with Wind N N W	
2	5								
3	5								
4	5								
5	5								
6	5								
7	5								
8	5								
9	5								
10	5								
11	5								
12	5								
1	5							P. M. Came in the same	
2	5								
3	5								
4	5								
5	5								
6	5								
7	5								
8	5								
9	5							End fire	
10	5								
11	5								
12	5							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				47-10	43-07			47-45	

Journal of B. B. Norman from San Francisco to N B

Hours.	KNOTS.	Fathoms.	Courses.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	8		S. E. by S. S. W. by N.					Lat Feb 26/81 A. M. Came in fire with Wind N. N. by N.	
2	6							Seas at present in sight bound to the N. E.	
3	6								
4	6								
5	6								
6	6								
7	6								
8	6								
9	6								
10	6								
11	6								
12	6								
1	6		N					P. M. Came in fire	
2	6								
3	6								
4	6								
5	6								
6	6								
7	6								
8	6								
9	6								
10	6								
11	6								
12	6								
								End with the same Wetter Wind N. E. by N.	
								Pump casing attached	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				41-18	41-15			38-50	

Journal of from

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.		
1	8		NE by N					Sun Feb 27/81 A. M. Early in fore Wind N Net Maki		
2	6									
3	6									
4	6									
5	6									
6	6									
7	6									
8	6									
9	6									
10	5									
11	5		S W					P. M. Come in Clowely Wind S W		
12	5									
1	5									
2	6									
3	6									
4	6									
5	6									
6	6									
7	5									
8	5									
9	5			S E						Early Clowely Wind S. E.
10	6									
11	6									
12	6									
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	
				38-19				36-36		

Journal of Bb Norman from San Francisco to N.B.

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	5-		N. N. E. E. S. E.					A. M. Came in clearly with Wind E. S. E.	
2	5-								
3	5-								
4	5-								
5	5-								
6	6-								
7	6-								
8	6-								
9	6-								
10	5-								
11	5-								
12	5-								
1	4-		N. N. E. E. S. E.					P. M. Came in clear Wind the same	
2	4-								
3	4-								
4	4-								
5	4-								
6	4-								
7	4-								
8	4-								
9	5-								
10	5-								
11	5-							End fire Wind E. S. E.	
12	5-							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				78-77	78-77			35-50	

Journal of from

Hours.	KNOTS.	Fathoms.	Courses.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.							
1	4			N E N E				Tug Mast /st A. M. Came in fine with Wind vary to S E							
2	4														
3	4														
4	4														
5	4														
6	4														
7	4														
8	4														
9	4		S E S E												
10	5-														
11	5-														
12	5-														
1	5-								S E S E	E					P. M. Came in Cloudy Wind E
2	6-														
3	6-														
4	6-														
5	6-														
6	6-														
7	6-														
8	6-														
9	5-							End fire							
10	4														
11	4														
12	4														
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.						
				34-79	35-70			35-59							

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	4		N. by N. N. E					A. M. Came in fine with Wind N. E	
2	4								
3	4								
4	4								
5	4								
6	4								
7	4								
8	4								
9	4								
10	2								
11	2								
12	2								
1	2		E. by S. S.					P. M. Came in fine with N. Yacht Ship	
2	4								
3	4								
4	4								
5	5								
6	5							Wit Male	
7	4								
8	4							A Ship in sight at the Entrance	
9	4								
10	4								
11	4							End fire	
12	4							Pumps empty attached	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				24-45	24-40			24-54	

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	2		E. S. E.	E. S.				A. M. Came in fine With Wind S.	
2	2								
3	2								
4	2								
5	2								
6	2								
7	2			Variable				at 7. Squally with heavy Wind and heavy Rain with Thunder and Lightning	
8	2								
9	2								
10	2								
11	2								
12	1								
1	2							P. M. Came in chawely	
2	2								
3	2								
4	2								
5	2								
6	2								
7	2								
8	2								
9	1		N. E. by S. S. W.					End fire with light air from S. W.	
10	1							Two Ships in sight	
11	2							Pumps empty attached	
12	2								
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				34-02	34-07			27-20	

Journal of *Bb Norman* from *San Francisco to S.B.*

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1								Tri May 4/81	
2								A. M. Came in fine	
3								and calm	
4									
5									
6	2		SE	SW					
7	2								
8	4							at 6 light airs from	
9	4							S. W.	
10	4								
11	4								
12	4								
1	4							P. M. Came in fine	
2	4							with Wind S	
3	4								
4	4			S					
5	4								
6	5								
7	5								
8	5								
9	5								
10	9							Eng the same	
11	9			SE				the same two ships	
12	9							in sight	
	9							Prunp carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				29-08	29-09			29-50	

Journal of *Bb Norman* from *San Francisco to S.B.*

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	4		SE	ESE				Set Mar 5/81 A. M. Came in fine with Wind very to the Eastward	
2	4								
3	4								
4	4								
5	4								
6	4								
7	4								
8	4		SE	E					
9	4								
10	5								
11	5								
12	5								
1	5							P. M. Came in the same	
2	4								
3	4								
4	4		SE	ESE					
5	7								
6	7								
7	7								
8	7								
9	7		SE	SE					
10	7								
11	7								
12	7								
								Eng the same	
								Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				29-49	29-50			29-10	

Journal of B. B. Norman from San Francisco to N.B.

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	4		N.W. N.W.					A. M. Came in fine	
2	4							with Wind very to West	
3	4							Wet Hole	
4	4		E.S.E.	N					
5	4								
6	4								
7	4							at 4 Tackled to it	
8	4							E.S.E.	
9	4								
10	5								
11	5								
12	5								
1	4							P. M. Came in squally	
2	2							easy sail accordingly	
3	2								
4	2								
5	2								
6	2								
7	2								
8	2								
9	5							Early Cloudy with	
10	5							fresh breeze from S.W.	
11	5							front: cany out the Ship	
12	5							Pumps empty attached	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				31-19	31-17			72-55	

Journal of from

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	5		E.S.E.	W				Mon Mar 7/81 A. M. Came in Cloudy with Wind W	
2	5								
3	4								
4	4								
5	4								
6	4								
7	4								
8	4								
9	4								
10	4								
11	5								
12	5								
1	5							P. M. Came in the Sun	
2	5								
3	4								
4	4								
5	5								
6	5								
7	5								
8	5							and end the same	
9	5								
10	5								
11	5								
12	5							Pumps empty attached	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				30-15				50-4	

from San Francisco & B.

from

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				25-49	25-51			25-40	

Journal of B. Norman from San Francisco to S. B.

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	4		N	S.				Thurs Mar 10/84 A. M. Came in fire	
2	4							Wind S	
3	4								
4	4								
5	4								
6	4								
7	4								
8	2								
9	2								
10	2								
11	2								
12	2								
1	2							P. M. Came in the low	
2	2								
3	2								
4	2			S. E.					
5	2								
6	2								
7	2								
8	2								
9	2								
10	2							End fire Wind S E	
11	2							Pumps easily attended	
12	2								
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				27-10	27-12			28-10	

Journal of from

Hours.	KNOTS.	Fathoms.	Courses.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	2		NNE	SE				A. M. <i>Came in fire</i>	
2	2							<i>with Wind S. E.</i>	
3	4								
4	4								
5	4								
6	4								
7	4								
8	4								
9	4								
10	5								
11	5								
12	5								
1	5							P. M. <i>Came in with</i>	
2	4		NNE	Variable				<i>Squall of Rain and</i>	
3	4							<i>light variable Wind</i>	
4	4								
5	4								
6	4								
7	4								
8	4								
9	4							<i>End the same</i>	
10	2								
11	2								
12	2							<i>Pumps easily attended</i>	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				26-02	26-02			27-57	

Journal of Bk Norman from San Francisco to S/B

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	7		S W	Variable				A. M. Came in with	
2	7							Squall of Rain	
3	7							and Variable Wind	
4	7								
5	7								
6	7								
7	7		SE	E. S. E					
8	4							at 8 Wind E S E	
9	4								
10	4								
11	4								
12	4								
1	4		S W	SE				P. M. Came in from	
2	4							Wind SE	
3	4								
4	4								
5	4								
6	4		W S W	SE					
7	7								
8	7								
9	7							End with fresh SE	
10	7							Winds	
11	4		E S E					Pumps carefully attached	
12	4								
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				25-18	25-12			29-13	

Journal of from

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.		
1	7		E. S. E.	SE				A. M. <i>Drum Mar 13/81</i> Came in with fresh S Wind		
2	7									
3	7									
4	7									
5	7									
6	7									
7	4									
8	4									
9	4									
10	4									
11	4									
12	4									
1	4							P. M. Came in the same		
2	4									
3	4									
4	4									
5	4							Saw a Bk. Steamer SE		
6	4							showing the English		
7	4							Flag		
8	4									
9	4									
10	4							End five Wind SE		
11	4							same		
12	4									
Course.		Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					24-17	24-12			27-55	

Journal of Bk Norman from San Francisco to S B

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.			
1	7		E N E	Variable				A. M. Came in line with Wind Variable			
2	7										
3	7										
4	9										
5	9		N W								
6	9							at 4 fathoms to the Westward			
7	9										
8	9		N W								
9	9							at 10 fathoms to the Eastward			
10	4										
11	4		E N E								
12	4										
1	4		N W	N E				P. M. Came in with Wind			
2	4							buddy to the S E			
3	4							Tacked to the Westward			
4	4										
5	4										
6	4										
7	4										
8	4										
9	7										
10	7							East Squally			
11	7										
12	9							Pumps carefully attended			
Course.		Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	
					23-28	23-22			25-46		

Journal of from

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.			
1	7		S E, S W	S E				A. M. Came in Squally			
2	7							with Wind S E evening			
3	7							Sail accordingly			
4	9										
5	4										
6	4										
7	4										
8	4										
9	4										
10	4										
11	4										
12	4										
1	4							P. M. Came in the Sea			
2	4										
3	4										
4	4										
5	5										
6	5										
7	5										
8	5										
9	4							East Squally			
10	4										
11	4										
12	4							Pumps carefully attended			
Course.		Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	
					22-08	22-09			29-00		

Journal of B. B. Norman

from San Francisco to N. B.

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	4		N. N. W.	N. E.				A. M. Calm in Squally with Wind N. E.	
2	4								
3	4								
4	4								
5	4								
6	4								
7	4								
8	4								
9	4		N. N. W.						
10	4								
11	4								
12	4								
1	4		E. N. E.	N. E.				P. M. Calm in Squally Wind N. E. Yacht to the Eastward	
2	4								
3	4								
4	4								
5	4								
6	4								
7	4								
8	4								
9	4		E. S. E.						
10	4								
11	4							End Squally Pumps carefully attended	
12	4								
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				27-29				28-55	

Journal of

from

Hours.	KNOTS.	Fathoms.	Courses.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	9		E S. E.	N. E.				A. M. Calm in Squally with Wind N. E.	
2	9								
3	9								
4	9								
5	9								
6	9								
7	4								
8	4								
9	9								
10	9								
11	9								
12	9								
1	9		E	N. E.				P. M. Calm in Squally Wind N. E.	
2	9								
3	9		E S. E.	N. E.					
4	9								
5	4							at 4 Wind N. E. Yacht to the Westward at 9 set the Island of Trinidad by N. W. to 40 Mils Longest coral Pumps carefully attended	
6	4								
7	4								
8	4								
9	4								
10	4								
11	4								
12	4								
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				20-50	20-50			29-10	

Journal of Bk Norman from San Francisco to S. D.

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	4		S by W	E S. E.				A. M. Calm in fine Wind	
2	4							E. S. E.	
3	4								
4	4								
5	4		S						
6	5								
7	5								
8	4								
9	6		S by E						
10	6								
11	4		S. S. E.	E					
12	6								
1	6							P. M. Calm in squally	
2	4							Wind E	
3	4								
4	5								
5	6								
6	6								
7	5								
8	6								
9	5							End the same	
10	5								
11	5								
12	5							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				18-30	18-55			29-50	

Journal of from

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	6		S. by E.	E				A. M. Calm in squally	
2	6							with Wind E	
3	6								
4	6								
5	5								
6	6								
7	6								
8	6								
9	6								
10	6								
11	6								
12	6								
1	10							P. M. Calm in fine	
2	12								
3	12								
4	12							Leak steadily increasing	
5	12								
6	12								
7	12								
8	12							End fine Wind the same	
9	12								
10	12								
11	12								
12	12							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				15-65	15-54			36-10	

Journal of Bb Norman from San Francisco

Hours.	Knots.	Fathoms.	Courses.	Winds.	LeeWay.	Barometer.	Temp.	REMARKS.			
1	2		S. by E. E. by S.					Sun Mar 20/81			
2	2							A. M. Came in fire			
3	2							Wind E. by S.			
4	2										
5	2							Ret. Mole			
6	2										
7	2										
8	2										
9	2										
10	2										
11	2										
12	2										
1	2							P. M. Came in fire			
2	2										
3	2										
4	2										
5	2										
6	2										
7	2										
8	2							End the same			
9	2										
10	2										
11	2										
12	2							Pumps carefully attended			
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.		
				12-50	12-44			70-48			

Journal of

from

Hours.	Knots.	Fathoms.	Courses.	Winds.	LeeWay.	Barometer.	Temp.	REMARKS.			
1	2		S. by E. E. by S.					Mon Mar 21/81			
2	2							A. M. Came in fire			
3	2										
4	2										
5	2										
6	2										
7	2										
8	2										
9	2										
10	2										
11	2										
12	2										
1	2							P. M. Came in the sea			
2	2										
3	2										
4	2										
5	2										
6	2										
7	2							End fire			
8	2										
9	2										
10	2										
11	2										
12	2							Pumps carefully attended			
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.		
				10-52	10-04			71-03			

Journal of Bk Norman from San Francisco to N.B.

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	5		N. 8 E. E. S. E.					July 22 nd Ma st A. M. Came in fire Wind E. S. E.	
2	5								
3	5								
4	5								
5	5								
6	5								
7	5								
8	5								
9	5								
10	5								
11	5								
12	5								
1	5		S. E.					P. M. Came in the same End fire Wind S. E. Pumps working attached	
2	6								
3	6								
4	6								
5	6								
6	6								
7	6								
8	6								
9	7								
10	7								
11	7								
12	7								
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				7-50	7-54			30-55	

Journal of from

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	6		SSE	SE				Wed Mar 23/81 A. M. Came in fire Wind S.E.	
2	6								
3	6								
4	6								
5	5								
6	5								
7	5								
8	5								
9	5								
10	5								
11	5								
12	5								
1	5							P. M. Came in the same Net Haul End Eclawdy Pumps carrying attached	
2	5								
3	5								
4	5								
5	5								
6	5								
7	5								
8	5								
9	5								
10	5								
11	5								
12	5								
Course.	Distance.	Diff. of Lat. "	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				5-42	5-38			30-50	

Journal of *Bb Norman* from *San Francisco to N.B*

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	5		N.N.E. Variable	E. S. E.				Thurs Mar 24/81 A. M. Came in with shower of Rain. Wind variable	
2	5								
3	5								
4	5								
5	5								
6	5								
7	5								
8	5								
9	5								
10	5								
11	5								
12	5								
1	4		E. S. E.						P. M. Came in Squally Wind E. S. E.
2	4								
3	4								
4	4								
5	4								
6	4								
7	4								
8	4								
9	4								
10	5								
11	5								
12	5								
								End fire Pump casing attached	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				3-35	3-50			30-50	

Journal of *Bb Norman* from *San Francisco to N.B*

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	5		SSE	E				Fri Mar 25/81	
2	5							A. M. Came in fire	
3	5							with Wind E	
4	6							in company with th. Italian Bagpiper. Victor & of Tenore	
5	6								
6	6								
7	6								
8	6								
9	6								
10	6								
11	6							P. M. Came in fire	
12	6								
1	6								
2	6								
3	6								
4	6								
5	6								
6	6								
7	6								
8	6								
9	6								
10	6								
11	6								
12	6		End th. Same						
								Pumps casing attached	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				1-20	1-22	1-2		30-45-	

Journal of Bk Norman from San Francisco to S B

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	4		S 4 E					A. M. Canu in fine	
2	4							Wind E	
3	4								
4	4								
5	4								
6	4								
7	4								
8	4								
9	4								
10	4								
11	4								
12	4								
1	4							P. M. Canu in the Sun	
2	4								
3	4								
4	4								
5	4								
6	4								
7	4								
8	4								
9	4							End fire	
10	4								
11	4								
12	4							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				00-170	00-120			31-70	

Journal of from

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	4		S 4 E					A. M. Canu in fine	
2	4							Wind E	
3	4								
4	4							Net Mole	
5	4								
6	4								
7	4								
8	4								
9	4								
10	4								
11	4								
12	4								
1	4							P. M. Canu in the bay	
2	4								
3	4								
4	4								
5	4								
6	4								
7	4							Eye with Squalls	
8	4							of Rain and boreal	
9	4							Wind	
10	4								
11	4								
12	4							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				1-15-	1-20			22-50	

Hours.	Knots.	Fathoms.	Courses.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.
1	4		cr 1/2 W	Passable				A. M. Came in with squalls of Rain and light variable winds
2	4							
3	4							
4	4							
5	4							
6	7							
7	7							
8	7							
9	7							
10	7							
11	7							
12	1							
1	2							P. M. Came in the Sea at 1/2 Hour Squall struck the vessel from E. N. E. Delays with the force of a Hurricane for the space of 5 or 8 minutes covering the Fore Main and Mizzen Top masts and the side all went by the lower Cape at Day light came in under all Hand to clear the Wreck from the Fore Top mast in three pieces Fore Top Galant Mast gave at the rig in Fore Topmast Mast gave at

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				2-20				34-15	
The Ship Holo many say in and sail badly some any chapel such siting in getting out of the Wreck forward and out any they in lat constant Journal of Pump courtaitt from stayed through the Day									

Hours.	Knots.	Fathoms.	Courses.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.
1								July 29/51
2								Came in with squalls of Rain with light variable winds all Hands employed in clearing the Wreck from the Fore Top Mast Mast Cracked broke off at the Trussel Trees from the Main Top Mast in three pieces Top Galant Mast gave at the rig of the upper ring gave breaking and badly chapel Main sail and Main Top sail badly torn and chapel Main Royal completely gave and Top Galley sail torn in very bad such as in Bay any of the Wreck of the Main the part the M's Top in this piece the upper badly chapel any rig complete unless
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					2-55			95-20	

Journal of Bk Hornum from San Francisco to S. B

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1								all Haul to rig A. M. Ship got up spec	
2								Yap Mat Tarwest and set up most of	
3								the rig in being out the the Mat	
4									
5								right the May Yap Sail Yost for	
6								the Fore and bent the Gail and	
7								set it repaired the Main.	
8								Sail temporary and set out	
9									
10								the Ship chiefly to the W. S. N.	
11									
12								Pumps capst attended	
1							P. M.		
2								Wit Hole	
3								Drift to the W. S. N. 56 Miles	
4									
5									
6									
7									
8									
9									
10									
11									
12									
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					7-17			76-20	

Journal of from

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1				Variable				Thurs. Nov 31/54	
2								A. M. Carry in with Squab	
3								of Rain and light	
4								variable Wind set	
5								up the J. Y. Sail	
6								Yost. buy the Sail	
7								and set it right the	
8								M. Y. G. Mast for the	
9								fore and got all	
10								ready to haul it up.	
11								Ship rocky aboys N	
12								Coast	
1								P. M.	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
								Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
					7-15			77-25	

Journal of Bk Norman from San Francisco to S F

Hours.	Knots.	Fathoms.	Courses.	Winds.	LeeWay.	Barometer.	Temp.	REMARKS.
1								<p><i>Fri Apr 1 / 81</i></p> <p>A. M. Came in with Wind E. S. E. with shower of Rain sent up J. J. Mast found the J. J. Mast and all four picked showed gun with the Wreck</p> <p>Commenced to make a M. J. Mast out of a Spare M. Mast</p> <p>P. M.</p> <p>End with fresh E. S. E. Wind</p> <p>Pumps easily started</p>
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				4-90	4-98			37-45	

Journal of from

Hours.	Knots.	Fathoms.	Courses.	Winds.	LeeWay.	Barometer.	Temp.	REMARKS.
1	4							<p><i>Sat Apr 2 / 81</i></p> <p>A. M. Came in with fresh E. S. E. Wind and shot chips Seed bottles the four J. J. Mast all ready to send up continued work on M J Mast</p> <p>P. M.</p> <p>End with fresh Winds kept J. J. G. repared the J. J. Mast and Bent it</p> <p>Wet Hail</p> <p>Pumps easily started</p>
2	4							
3	4							
4	4							
5	4							
6	4							
7	5							
8	5							
9	5							
10	7							
11	7							
12	7							
1	7							
2	7							
3	7							
4	7							
5	7							
6	7							
7	7							
8	7							
9	7							
10	7							
11	7							
12	7							

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				6-25	6-42			50-10	

Journal of *Bk Narnan* from *Lane* *Transeye* to *S.B.*

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	5-		<i>ESWSE</i>	<i>ESE</i>				<p><i>Sun Apr 3/51</i></p> <p>A. M. <i>Line came in with fresh ESE Wind to rigel to sent up Spars Continued work on M.S. Mast</i></p>	
2	5-								
3	5-								
4	5-								
5	5-								
6	5-								
7	5-								
8	5-								
9	5-								
10	5-								
11	5-								
12	5-								
1	5-							<p>P. M.</p> <p><i>End my moderate Set ahead S. S.</i></p> <p><i>Prumps carrying athwart</i></p>	
2	5-								
3	5-								
4	5-								
5	5-								
6	5-								
7	5-								
8	5-								
9	5-								
10	5-								
11	5-								
12	5-								
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				<i>7-45-</i>	<i>7-50</i>			<i>41-52</i>	

Journal of *Bk Narnan* from *Lane* *Transeye* to *S.B.*

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	7		ESWSE	ESE				A. M. Lane in with fresh ESE Wind	
2	7								
3	7								
4	7								
5	7								
6	7								
7	7								
8	7								
9	7								
10	7								
11	7								
12	7								
1	5							P. M. Lane in the Lane Scup up the S. S. Mast sent the Spars Continued work on Main Top Mast Prumps carrying athwart	
2	5								
3	5								
4	5								
5	5								
6	5								
7	5								
8	5								
9	5								
10	5								
11	5								
12	5								
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				8-95-	9-40			47-78	

Journal of Bb Norman from San Francisco to S.B.

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	5		SE	SE				A. M. Came in fine with wind SE	
2	5								
3	5								
4	5								
5	5								
6	5								
7	5								
8	5								
9	5								
10	5								
11	5								
12	5								
1	5							P. M. Came in the same	
2	5							still continue the	
3	5							work on Main	
4	5							Tak wat and engine	
5	5							work on Cross Tree	
6	5							eleat. to Sea of	
7	5							the lake Tak sail boat	
8	5							and Panquet the fish	
9	5							boom	
10	5								
11	5								
12	5							Pumps easily attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				11-75	11-40			4500	

Journal of from

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	5		SE	SE				A. M. Came in fine	
2	5							with fresh S E	
3	5							Wind	
4	5							put a pole here	
5	5							the	
6	5								
7	5							continued work on	
8	5							Main Top Mast	
9	5							and Paint the	
10	5							Spar forward	
11	5								
12	5								
1	5							P. M. Came in the same	
2	5							with Koli	
3	5								
4	5								
5	5								
6	5								
7	5								
8	5								
9	5							End fine	
10	5								
11	5								
12	5							Pumps easily attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				17-50	17-55			47-08	

Journal of

Course

Journal of

Course.

Journal of B. H. Norman from San Francisco to S. B.

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	6		S. N. W. E. S. E.					A. M. Came in fire	
2	6							with fresh S. E.	
3	6							Wind	
4	6								
5	6								
6	6								
7	6								
8	6								
9	6								
10	6								
11	6								
12	6								
1	6							P. M. Came in the Sun	
2	6							Sent up 27 9	
3	6							Mat and Yard and	
4	6							sent the sail	
5	6							carried work on	
6	6							new Main Top sail	
7	6							Yard	
8	6								
9	6							End fire	
10	6								
11	6								
12	6							Pump & carpenter attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				19-90	19-94			52-72	

Journal of from

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	6		S. N. W. E. S. E.					A. M. Came in fire with Wind E. S. E.	
2	6								
3	6								
4	6								
5	6							Continued work on	
6	6							Main Top Sail Yard	
7	6								
8	6								
9	6								
10	6								
11	6								
12	6								
1	6							P. M. Came in the	
2	6							Same	
3	6								
4	6								
5	6								
6	6								
7	6								
8	6								
9	6							End fire	
10	6								
11	6								
12	6							Pump & carpenter attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				21-14	21-10			54-02	

Journal of Bk Norman from San Francisco to S.B.

Hours.	KNOTS.	Fathoms.	Courses.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.			
1	5		SE	SE				<p>Man of 14/81</p> <p>A. M. Easing in fire with Light S.E. Wind</p> <p>P. M. Easing in the fire</p> <p>Painting Ship aloft</p> <p>End fire</p> <p>Pumps carefully attended</p>			
2	5										
3	5										
4	5										
5	5										
6	5										
7	5										
8	5										
9	5										
10	5										
11	5										
12	5										
1	5							<p>P. M. Easing in the fire</p> <p>Painting Ship aloft</p> <p>End fire</p> <p>Pumps carefully attended</p>			
2	5										
3	5										
4	5										
5	5										
6	5										
7	5										
8	5										
9	5										
10	5										
11	5										
12	5										
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.		
				22-15	22-20			54-50			

Journal of from

Hours.	KNOTS.	Fathoms.	Courses.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.			
1	4		SE	S				<p>July 14/81</p> <p>A. M. Easing in fire with Wind & Light</p> <p>P. M. Easing in the fire</p> <p>Boat the Swedish Ship Ellenora from Laredo to St. Roman 30 Day out all well</p> <p>End fire Wind S.E.</p> <p>Pumps carefully attended</p>			
2	4										
3	4										
4	4										
5	4										
6	4										
7	4										
8	4										
9	4										
10	4										
11	4										
12	4										
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.		
				22-45	22-45			55-40			

Journal of Bb Norman from San Francisco to B

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	9		SE by S	SE				Wed Apr 13/81 A. M. Comes in fine with light SE Wind	
2	9								
3	9								
4	4							Scanty ship outside	
5	4								
6	4								
7	4								
8	5								
9	5							at 8 Squally ap	
10	6							Rain with fresh	
11	6							SE Wind	
12	6								
1	7							P. M. Comes in Squally	
2	7							in 2 Sails and	
3	7							4 fath	
4	6								
5	5								
6	5								
7	5							Wet. Holi	
8	5								
9	5								
10	5								
11	5							End pin all sail set	
12	5							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				24-20	24-18			37-05	

Journal of from

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	5-		SE by S	SE				A. M. Comes in fine	
2	5-							Wind SE	
3	5-								
4	5-								
5	5-								
6	5-							Scanty ship inside	
7	5-								
8	5-								
9	5-								
10	5-								
11	5-								
12	5-								
1	5-							P. M. Comes in the sea	
2	5-								
3	5-								
4	5-								
5	5-			SE					
6	4								
7	4								
8	4							End pin wind	
9	4							SE	
10	4								
11	4								
12	4							Pumps carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				25-25	25-21			35-25	

Journal of Bb Sorman from San Francisco to S. B.

Hours.	Knots.	Fathoms.	Courses.	Winds.	LeeWay.	Barometer.	Temp.	REMARKS.			
1	4		S. B.	S. E.				A. M. Carry in fire with			
2	4							Wind S E			
3	4										
4	4										
5	4										
6	4							Barometric Ship			
7	4										
8	4										
9	5-										
10	5-										
11	5-										
12	5-										
1	5-							P. M. Carry in fire			
2	5-										
3	5-										
4	5-										
5	5-										
6	5-										
7	5-										
8	5-										
9	4			S				End fire Wind S			
10	4										
11	4							Pumps carefully attended			
12	4										
Course.		Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	
					26-40	26-42			37-57		

Journal of from

Hours.	Knots.	Fathoms.	Courses.	Winds.	LeeWay.	Barometer.	Temp.	REMARKS.			
1	4		S. W. B.	S				A. M. Carry in fire			
2	4							Wind S			
3	3										
4	3										
5	4										
6	4										
7	4										
8	4		S. B. S.								
9	5-										
10	5-										
11	5-										
12	5-										
1	5-							P. M. Carry in the same			
2	5-										
3	5-										
4	5-										
5	5-										
6	5-										
7	5-										
8	5-			S S							
9	5-							End, Cloudy Wind			
10	5-							S. W.			
11	5-							Pumps carefully attended			
12	5										
Course.		Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	
					27-25				41-28		

Journal of Bb Norman from San Francisco to S B

HOURS.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	4		CS N	SW				<i>Thurs 17/51</i> A. M. Came in with fresh SW Wines and Rain	
2	4								
3	4								
4	4							in 19 sails and 1 fath.	
5	4							Net Hole	
6	4								
7	4								
8	4								
9	4								
10	4							at 11 Wind out to	
11	3		SSN	N				W light	
12	2								
1	2							P. M.	
2	2								
3	2								
4	2								
5	2							at 4 fresh W Wind	
6	4							at 10 fath. two	
7	4							Reef in 19 sails	
8	5								
9	5								
10	5								
11	4							End with fresh Suly	
12	4							Drumseapily attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				29-16	29-29			62-45	

Journal of from

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	4		CS N	N				A. M. Came in with fresh N Suly fresh M.G.	
2	4								
3	4								
4	4								
5	2								
6	2								
7	2							at 11 heavy Squalls Close Reefed 19 sails fresh 19 sails and 1 fath.	
8	2								
9	2								
10	2								
11	2								
12	2								
1	2							P. M.	
2	2								
3	2		SSN	SW	2 1/2				
4	2							at 2 fath. CS N with heavy Squalls fresh 19 sails and Wine to the N. S. N.	
5	2								
6	1								
7	1								
8	1								
9	2		SSN		1 1/2			End more moderate Set Sail accordingly Pumpseapily attended	
10	2								
11	2								
12	1								
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				29-57	30-02			62-03	

Journal of Bb Norman from San Francisco to S B

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.				
1	2		N. by E. 8 N.	S. by E. 8 N.				A. M. Carry in - moderate Wind S. by E.				
2	2											
3	2											
4	2											
5	2											
6	2											
7	1											
8	1											
9	1											
10	1											
11			Calme				P. M. Carry in Calme at 2 light air from N. by E.					
12												
1												
2												
3	2		S. by E. 8 N.									
4	2											
5	2											
6	2											
7	2											
8	2											
9	2											
10	2											
11	2											
12	2											
			Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
							20-12	20-19			69-78	

Journal of from

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	9		S. N.	N. E. N.				Wed Apr 20/81 A. M. Carry in fine with Wind N. E. N.	
2	9								
3	9								
4	9								
5	9								
6	9								
7	9								
8	9								
9	9								
10	2								
11	2								
12	2								
1	2							P. M. Carry in fine Wind S. N.	
2	2								
3	9								
4	9			S. N.					
5	4								
6	4								
7	4							Net Holi	
8	4								
9	4								
10	4							End the same	
11	4								
12	4							Pumpers carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				31-10	31-06			63-50	

Journal of Bb Norman

from San Francisco to S B

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS. <i>Thurs Apr 24/51</i>			
1	4		<i>S N by W S. by S</i>					<i>A. M. Carry in fine Wind S. by N.</i>			
2	4										
3	4										
4	4										
5	4										
6	4										
7	4										
8	4										
9	4										
10	1			<i>Variable</i>				<i>P. M. Carry in with variable air</i>			
11	2										
12	2										
1	2			<i>N. by S.</i>							
2	2										
3	4										
4	4										
5	4										
6	2										
7	2							<i>Eat Cloudy Wind N. by N.</i>			
8	2										
9	5										
10	5										
11	5										
12	5										
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.		
				<i>32-01</i>	<i>32-04</i>			<i>66-20</i>			

Journal of

from

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS. <i>Fri Apr 25/51</i>			
1	5		<i>S N by S N. by N.</i>					<i>A. M. Carry in Cloudy with Wind N. by N.</i>			
2	5										
3	5										
4	5		<i>S</i>								
5	2										
6	2										
7	2			<i>S by N</i>							
8	2										
9	4							<i>at 4 Wind S N</i>			
10	4										
11	4										
12	4										
1	2		<i>S N N</i>	<i>S S E</i>							
2	2										
3	2										
4	2										
5	2										
6	2		<i>S S N</i>	<i>S E</i>							
7	2										
8	2							<i>Eat Cloudy Wind E</i>			
9	2										
10	2										
11	2										
12	2										
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.		
				<i>33-07</i>				<i>66-55</i>			

Journal of Bk Norman from San Francisco to S B

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	2		WSM	E				A. M. Carry in Clouds	
2	2							Wind E	
3	2								
4	2								
5	2								
6	2								
7	1								
8	1								
9	2		WSM	S					
10	2								
11	2								
12	2		WS						
1	2							P. M. Carry in with	
2	2							Wind S and Clouds	
3	2							hills	
4	2								
5	2								
6	1								
7	2								
8	2								
9	4								
10	4							End Cloud Wind W	
11	4							Pump casp's attached	
12	4		WSM	W					
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				24-08				67-50	

Journal of from

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	2		WSM	E				A. M. Carry in Cloudy	
2	2							with Wind S W	
3	2								
4	2								
5	2		WSM	S				Net Hole	
6	2								
7	2								
8	2							at 4 fathoms to W S W	
9	5							Wind S	
10	5								
11	5								
12	5								
1	5		WSM	S				P. M. Carry in Cloud	
2	5							with fresh S Wind	
3	5								
4	4								
5	4		WSM	S E					
6	4								
7	4								
8	4								
9	4							End pin Wind S E	
10	4								
11	4								
12	2							Pump casp's attached	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				24-59	35-07			67-25	

Journal of Bb Norman from San Francisco to & B

HOURS.	KNOTS.	FATHOMS.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1				Calm				A. M. Calm in fine	
2								Calm	
3									
4									
5									
6								at 8 Wind N	
7	2			SE 1/4 N					
8	2								
9	5			SE 1/4 N					
10	2								
11	2								
12	2								
1	2							P. M. Calm in with	
2	2							fresh Wind	
3	2								
4	2								
5	6								
6	5			SE 1/4 N					
7	5								
8	5								
9	5							End of day with fresh	
10	5							Westerly Gale	
11	5								
12	5							Prunp carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				76-45	76-44			70-10	

Journal of from

Hours.	KNOTS.	Fathoms.	Courses.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	4		dr. S. by N.	N ^r				A. M. Calm in with	
2	4							fresh Gale from the	
3	4							Westward	
4	4							at 4 Moderate Breeze	
5	2							all Sail Set Stead	
6	2							Gullf. Steamer	
7	1								
8								Calm	
9									
10									
11									
12									
1								P. M. Calm in Calm	
2			dr. N. by E.	N. S. N.					
3	5								
4	5							at 2 light Wind	
5	5							from N. S. N.	
6	5								
7	5							Saw several Ships	
8	2							Plowing E. S. E.	
9	2							along with the Hawk	
10	2							& E part the Steamer	
11	2								
12	2							Pump carefully attended	
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				75-45	75-40			70-14	

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.	
1	2		SW by S					A. M. Early in with	
2	2							Wind S by E	
3	2								
4	2							at 4 fathoms	
5	5								
6	5								
7	5								
8	5								
9	5								
10	5								
11	5								
12	7								
1	5							P. M. Early in thick	
2	5							East the Lead 85	
3	5							fathoms out and in	
4	4							bottom	
5	2								
6	2								
7	2							at 8 East Lead	
8	2							42 fathoms water	
9	2							Early thick with	
10	2							light north E by S	
11	2							Surf, carefully observed	
12	2								
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
				41-41				71-46	

Hours.	KNOTS.	Fathoms.	COURSES.	WINDS.	LEEWAY.	BAROMETER.	TEMP.	REMARKS.											
1	<i>Arrived at N Bedford April 29</i>							A. M.											
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
1					P. M.														
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
Course.		Distance.		Diff. of Lat.		Departure.		Lat. by D. R.		Lat. by Ob.		Variation.		Diff. of Lon.		Lon. in.		Lon. by Ob.	

